

# STIC EIC 2100 Search Request Form

190231  
78

Today's Date:

5/17/2006

What date would you like to use to limit the search?

Priority Date: 12/6/2000 Other:

Name GREG BENZION

AU 2144 Examiner # 80501

Room # 4C79 Phone 23944

Serial # 10/007807

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES NO

A NETWORK OF CONTROLLED <sup>TARGET</sup> DEVICES

- RECEIVING EXTERNAL ~~IN~~ (BROADCAST) EVENT

- IDENTIFY <sup>SOURCE OF</sup> A STANDARD TIME

- IDENTIFY TARGET DEVICE

- PRESET TARGET DEVICE (RECORDING) TIME

- TRIGGER <sup>ACCORD. TO</sup> RECORDING STANDARD TIME

MATSUBISHIYA

PG PUB 2002/99841

STIC Searcher

Greg Benzion

Phone

2-3520

Date picked up

5/17/06

Date Completed

5/17/06

39/3,K/11 (Item 11 from file: 2) Links

Fulltext available through: Institute of Electrical and Electronics Engineers USPTO Full Text Retrieval Options  
INSPEC

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07304877 **INSPEC Abstract Number:** B1999-09-6430G-007, C1999-09-5630M-003

**Title:** Design and evaluation of a generic software architecture for on-demand video servers

**Author** Chien-Liang Liu, J.; Du, D.H.C.; Shim, S.S.Y.; Jenwei Hsieh; MengJou Lin

**Author Affiliation:** Sch. of Electr. Eng. & Comput. Sci., Washington State Univ., Pullman, WA, USA

**Journal:** IEEE Transactions on Knowledge and Data Engineering vol.11, no.3 p. 406-24

**Publisher:** IEEE ,

**Publication Date:** May-June 1999 **Country of Publication:** USA

**CODEN:** ITKEEH **ISSN:** 1041-4347

**SICI:** 1041-4347(199905/06)11:3L:406:DEGS;1-Y

**Material Identity Number:** N571-1999-004

**U.S. Copyright Clearance Center Code:** 1041-4347/99/\$10.00

**Language:** English

**Subfile:** B C

Copyright 1999, IEE

**Abstract:** ...evaluation of a generic software architecture for on-demand video servers. We describe different key components for controlling the storage and network devices within the server. The interactive collaborations between these software components are also illustrated. The experimental results indicate a very promising direction in exploring the right combinations of these software components. The server is thus able to increase the number of concurrent video accesses with the same hardware configuration. For instance, with the right combinations, the system achieved about 80% of the storage system bandwidth of four disks, about 70% of the storage system bandwidth of six disks, and generally reached the maximal achieved SCSI bandwidth when eight...  
...currently under construction across a variety of hardware platforms, including SMP, DMP and clusters of PCs or workstations. The most advanced prototype server is based on an SGI shared-memory multiprocessor with a mass storage system consisting of RAID-3 disk arrays. With all the enabling/management schemes, we were...

**Identifiers:** ...network device control... ...storage device control... ...concurrent video accesses... ...storage system bandwidth... ...mass storage system

1999

39/3,K/4 (Item 4 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

INSPEC

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07649587 INSPEC Abstract Number: B2000-08-6210L-150, C2000-08-7210N-129

**Title:** Webcasting-the broadcasters' perspective

**Author** Kozamernik, F.

**Journal:** EBU Technical Review no.282 p. 28 pp.

**Publisher:** Eur. Broadcasting Union ,

**Publication Date:** March 2000 **Country of Publication:** Switzerland

**CODEN:** ETEREG **ISSN:** 1019-6587

**Material Identity Number:** P908-2000-001

**Language:** English

**Subfile:** B C

Copyright 2000, IEE

**Title:** Webcasting-the broadcasters' perspective

**Abstract:** This article is based on the work carried out by the former EBU Webcasting Group. It provides an update on the extremely fast developments in the area of Webcasting that have occurred since the publication of the Group's document, "BPN 022-Practical Webcasting". It also outlines some of the opportunities and challenges provided by Webcasting and gives some indication of the future prospects. In particular, the article explores the impact of the Internet on the broadcasting sector. We are witnessing the process of convergence between the Internet and the emerging digital terrestrial and satellite broadcast systems. The convergence of the PC and digital broadcast terminals is bringing about the delivery of new services as part of the multi-channel offerings from digital radio and television broadcasters.

**Descriptors:** digital audio broadcasting; ... ..digital video broadcasting; ... ..direct broadcasting by satellite... ..Internet

**Identifiers:** EBU Webcasting Group... ..Internet; ... ..satellite broadcast systems... ..digital terrestrial broadcast systems... ..digital broadcast terminals... ..digital radio broadcasting; ... ..digital television broadcasting; ... ..World Wide Web;

2000

39/3,K/34 (Item 34 from file: 2) Links

Fulltext available through: USPTO Full Text Retrieval Options

INSPEC

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05369340 INSPEC Abstract Number: B9305-6210L-003, C9305-5620-001

**Title: Techniques for multimedia synchronization in network file systems**

**Author** Rangan, P.V.; Ramanathan, S.; Vin, H.M.; Kaepner, T.

**Author Affiliation:** Dept. of Comput. Sci. & Eng., California Univ., San Diego, La Jolla, CA, USA

**Journal:** Computer Communications vol.16, no.3 p. 168-76

**Publication Date:** March 1993 **Country of Publication:** UK

**CODEN:** COCOD7 **ISSN:** 0140-3664

**U.S. Copyright Clearance Center Code:** 0140-3664/93/030168-09\$3.00

**Language:** English

**Subfile:** B C

**Title: Techniques for multimedia synchronization in network file systems**

**Abstract:** ...data is the presence of multiple media streams, whose display must proceed in a mutually synchronized manner. The design of techniques for synchronization of multimedia data at the time of storage, and retrieval from network file servers is the subject matter of this paper. The authors present algorithms by which a file server can create a relative time system and synchronize media units transmitted by different sources on a network to construct a multimedia object. These algorithms stay robust in the absence of global clocks, in the presence of transmission jitter and generation rate mismatches. The authors develop a feedback technique by which the file server can detect asynchronies in display devices during retrieval of multimedia objects, and even restore synchrony by deleting or duplicating media units destined for asynchronous destinations. They then present strategies by which the file server can actually predict the time in future when the asynchrony of a device is expected to exceed the permitted bound... ..action to nullify the asynchrony in advance. These algorithms can be generalized to heterogeneous multimedia networks in which there may be variations in sizes of media units generated, differences in network locations of sources and destinations, etc.

**Descriptors:** ...synchronisation

**Identifiers:** multimedia synchronization; ... ..network file systems... ..mutually synchronized manner...

...network file servers... ..transmission jitter

1993

45/3,K/2 (Item 2 from file: 350) Links

Derwent WPIX

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015186417      \*\*Image available\*\*

WPI Acc No: 2003-246950/200324

XRPX Acc No: N03-196231

**Wireless network e.g. CSMA network, determines  
time to transmit information to radio frequency access point, based on  
transmission time-ordered list generated from  
isochronous device identification data**

Patent Assignee: SPECTRALINK CORP (SPEC-N)

Inventor: AMANN K R; HAMILTON M A

Number of Countries: 001    Number of Patents: 001

Patent Family:

| Patent No  | Kind | Date     | Applicat No | Kind | Date     | Week     |
|------------|------|----------|-------------|------|----------|----------|
| US 6496499 | B1   | 20021217 | US 98113649 | P    | 19981223 | 200324 B |
|            |      |          | US 99454137 | A    | 19991203 |          |

Priority Applications (No Type Date): US 98113649 P 19981223; US 99454137 A 19991203

Patent Details:

| Patent No  | Kind | Lan Pg | Main IPC     | Filing Notes                        |
|------------|------|--------|--------------|-------------------------------------|
| US 6496499 | B1   | 17     | H04B-007/212 | Provisional application US 98113649 |

**Wireless network e.g. CSMA network, determines  
time to transmit information to radio frequency access point, based on  
transmission time-ordered list generated from  
isochronous device identification data**

Abstract (Basic):

...      A microprocessor generates a transmission **time-ordered**  
list from **isochronous device identification** data  
**received** from a radio frequency access point (302) and  
accordingly determines time to transmit information to...  
...      E.g. carrier sense multiple access (CSMA) **network**.  
...

...The figure shows the block diagram of the wireless **network**.

...Title Terms: **NETWORK**;

Manual Codes (EPI/S-X): **W01-A03B...**

...**W01-A06C4...**

...**W01-A06E1...**

...W01-A06F1A

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XRPX Acc No: N00-212960

Network that allows telephone and video to share computer network with non-real-time traffic uses several device adapters creating frame of time that may be synchronized in plurality of device adapters

Patent Family:

| Patent No      | Kind | Date     | Applicat No   | Kind | Date     | Week   |   |
|----------------|------|----------|---------------|------|----------|--------|---|
| WO 200011820   | A1   | 20000302 | WO 99US18984  | A    | 19990818 | 200024 | B |
| AU 9956816     | A    | 20000314 | AU 9956816    | A    | 19990818 | 200031 |   |
| US 6215797     | B1   | 20010410 | US 98136706   | A    | 19980819 | 200122 |   |
| US 20010002196 | A1   | 20010531 | US 98136706   | A    | 19980819 | 200131 |   |
|                |      |          | US 2001761207 | A    | 20010116 |        |   |
| EP 1105988     | A1   | 20010613 | EP 99943786   | A    | 19990818 | 200134 |   |
|                |      |          | WO 99US18984  | A    | 19990818 |        |   |
| US 6246702     | B1   | 20010612 | US 98136706   | A    | 19980819 | 200135 |   |
|                |      |          | US 98224577   | A    | 19981231 |        |   |
| US 20010002195 | A1   | 20010531 | US 98136706   | A    | 19980819 | 200137 |   |
|                |      |          | US 98224577   | A    | 19981231 |        |   |
|                |      |          | US 2001764779 | A    | 20010117 |        |   |
| US 6661804     | B2   | 20031209 | US 98136706   | A    | 19980819 | 200381 |   |
|                |      |          | US 98224577   | A    | 19981231 |        |   |
|                |      |          | US 2001764779 | A    | 20010117 |        |   |
| US 6751231     | B2   | 20040615 | US 98136706   | A    | 19980819 | 200439 |   |
|                |      |          | US 2001761207 | A    | 20010116 |        |   |

### Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
|-----------|------|-----|----|----------|--------------|

WO 200011820 A1 E 67 H04J-003/06

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN  
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9956816      A      Based on patent WO 200011820

US 6215797      B1      H04J-003/06

US 20010002196 A1 H04B-007/212 Cont of application US 98136706

Cont of patent US 6215797

EP 1105988      A1 E      H04J-003/06      Based on patent WO 200011820

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

|                |    |                |  |
|----------------|----|----------------|--|
| US 6246702     | B1 | H04J-003/06    | CIP of application US 98136706<br>CIP of patent US 6215797   |
| US 20010002195 | A1 | 36 H04L-012/28 | CIP of application US 98136706<br>Cont of application US 98224577<br>CIP of patent US 6215797                              |
| US 6661804     | B2 | H04L-012/28    | CIP of application US 98136706<br>Cont of application US 98224577<br>CIP of patent US 6215797<br>Cont of patent US 6246702 |
| US 6751231     | B2 | H04J-003/16    | Cont of application US 98136706  |

**Network that allows telephone and video to share  
computer network with non-real-time traffic uses several device  
adapters creating frame of time that may be synchronized in  
plurality of device adapters**

Abstract (Basic):

... A number of device adapters create a frame of **time**, which may be **synchronized** in the number of device adapters and repeating periodically. The frame includes a number of phases. Each of the device adapters has one of the phases **assigned** to it and transmits the packets **received** at the **device** interface to the **network** medium during the phase assigned to it. The number of phases includes a free-access...

... The **network** (110) may include a broadcast portion (1), The latter is an environment in which packets **generated** by one **station** are transmitted to each of the stations on the **network** (i.e., packets are broadcast throughout the **network**). Accordingly, collisions would occur in the broadcast portion (1) if the device adapters (1000) of...

...not present to control the transmission of packets. The broadcast portion (1) may be an **Ethernet network** or another type of **network** generally operating in a broadcast environment...

...a) a device adapter for regulating traffic in a **network**  
(...

...b) a method for regulating traffic in **network** including **devices** for **generating** packets of data...

...repeater hub for connecting several real time devices and non-real-time devices into a **network**  
...

...In computer **networks** that allow real-time traffic such as telephone and video to share a computer **network** with non-real-time traffic to provide quality-of-service latency and bandwidth guarantees for...



...Capable of creating virtual isochronous channels within a CSMA/CD **Ethernet network**. Provides an arbitration mechanism to control access to the **network** for time-sensitive signals and to minimize or substantially eliminate collisions...

...The drawing is a schematic view of an exemplary **network** in accordance with the present invention...

...**network** (110

Title Terms: **NETWORK**;

...International Patent Class (Main): **H04L-012/28**

International Patent Class (Additional): **H04L-012/56**

Manual Codes (EPI/S-X): **T01-F02A1...**

...**T01-H07C5A...**

...**W01-A01C...**

...**W01-A03A1...**

...**W01-A03B...**

...**W01-A06F...**

...**W01-A06G2**

45/3,K/29 (Item 29 from file: 350) Links

Derwent WPIX

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010189805      \*\*Image available\*\*

WPI Acc No: 1995-091059/199512

XRPX Acc No: N95-071974

**Widely separated clock synchronisation for simulcast  
paging network - transmits time-mark at precise instant,  
with paging station receivers measuring time interval between time-mark  
receipt and transmission**

Patent Assignee: GLENAYRE ELECTRONICS INC (GLEN-N)

Inventor: FAWCETT G S; GLESSNER D W; WITSMAN M L; WITSAMAN M L

Number of Countries: 022    Number of Patents: 009

Patent Family:

| Patent No  | Kind | Date     | Applicat No   | Kind | Date     | Week     |
|------------|------|----------|---------------|------|----------|----------|
| WO 9505039 | A1   | 19950216 | WO 93US8016   | A    | 19930827 | 199512 B |
| CN 1086647 | A    | 19940511 | CN 93117995   | A    | 19930929 | 199529   |
| US 5481258 | A    | 19960102 | US 93105436   | A    | 19930811 | 199607   |
| FI 9600575 | A    | 19960208 | WO 93US8016   | A    | 19930827 | 199617   |
|            |      |          | FI 96575      | A    | 19960208 |          |
| EP 713619  | A1   | 19960529 | EP 93921192   | A    | 19930827 | 199626   |
|            |      |          | WO 93US8016   | A    | 19930827 |          |
| US 5697051 | A    | 19971209 | US 93105436   | A    | 19930811 | 199804   |
|            |      |          | US 95549055   | A    | 19951027 |          |
| EP 1063798 | A2   | 20001227 | EP 93921192   | A    | 19930827 | 200102   |
|            |      |          | EP 2000116478 | A    | 19930827 |          |
| KR 298987  | B    | 20011022 | WO 93US8016   | A    | 19930827 | 200236   |
|            |      |          | KR 96700709   | A    | 19960212 |          |
| CN 1053305 | C    | 20000607 | CN 93117995   | A    | 19930929 | 200468   |

Priority Applications (No Type Date): US 93105436 A 19930811; US 95549055 A 19951027

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
|-----------|------|-----|----|----------|--------------|

|            |    |    |  |             |  |
|------------|----|----|--|-------------|--|
| WO 9505039 | A1 | 54 |  | H04B-007/00 |  |
|------------|----|----|--|-------------|--|

Designated States (National): CA FI KR

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

|            |   |  |  |             |  |
|------------|---|--|--|-------------|--|
| CN 1086647 | A |  |  | H04B-007/26 |  |
|------------|---|--|--|-------------|--|

|            |   |    |  |             |  |
|------------|---|----|--|-------------|--|
| US 5481258 | A | 22 |  | G05B-023/02 |  |
|------------|---|----|--|-------------|--|

|            |   |  |  |             |  |
|------------|---|--|--|-------------|--|
| FI 9600575 | A |  |  | H04L-000/00 |  |
|------------|---|--|--|-------------|--|

|           |      |    |  |             |                            |
|-----------|------|----|--|-------------|----------------------------|
| EP 713619 | A1 E | 54 |  | H04B-007/00 | Based on patent WO 9505039 |
|-----------|------|----|--|-------------|----------------------------|

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

|            |   |    |  |             |                                 |
|------------|---|----|--|-------------|---------------------------------|
| US 5697051 | A | 20 |  | H04B-007/19 | Cont of application US 93105436 |
|------------|---|----|--|-------------|---------------------------------|

Cont of patent US 5481258

|            |      |  |  |             |                                |
|------------|------|--|--|-------------|--------------------------------|
| EP 1063798 | A2 E |  |  | H04H-003/00 | Div ex application EP 93921192 |
|------------|------|--|--|-------------|--------------------------------|

Div ex patent EP 713619

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

|           |   |  |  |             |                                   |
|-----------|---|--|--|-------------|-----------------------------------|
| KR 298987 | B |  |  | H04B-005/04 | Previous Publ. patent KR 96704402 |
|-----------|---|--|--|-------------|-----------------------------------|

**Widely separated clock synchronisation for simulcast  
paging network - ...**

...transmits time-mark at precise instant, with paging station receivers measuring time interval between time-mark receipt and transmission

...Abstract (Basic): A clock **synchronisation** system **synchronises** plural paging stations (24), operating with a system **controller** (23) locked to external reference, e.g. GPS satellite. Each station contains a clock indicating...

...A central microcontroller monitors station times and system clock timing information, i.e. time-mark **transmission** and precise instant thereof...

...Subsequently, the system clock **transmits** the time-mark **transmission** instant, and each paging station measures the interval between time-mark receipt and its original **transmission** time. Knowledge of the time-mark **transmission** instant and the propagation delay to each station enables determin. and correction of any error...

...USE/ADVANTAGE - For clock **synchronisation** in distributed **transmission** e.g. paging system, enabling multiple clock co-ordination economically, with min. extra **components** in each **receiving** station...

...Abstract (Equivalent): A clock **synchronisation** system **synchronises** plural paging stations (24), operating with a system **controller** (23) locked to external reference, e.g. GPS satellite. Each station contains a clock indicating...

...A central microcontroller monitors station times and system clock timing information, i.e. time-mark **transmission** and precise instant thereof...

...Subsequently, the system clock **transmits** the time-mark **transmission** instant, and each paging station measures the interval between time-mark receipt and its original **transmission** time. Knowledge of the time-mark **transmission** instant and the propagation delay to each station enables determin. and correction of any error...

...USE/ADVANTAGE - For clock **synchronisation** in distributed **transmission** e.g. paging system, enabling multiple clock co-ordination economically, with min. extra **components** in each **receiving** station...

...a) a system **controller** including a system clock for maintaining a system time, said system **controller** being operative to generate paging data blocks, said paging data blocks containing pages to be **broadcast**, each of said paging data blocks containing a **start** time and timing information, said timing information being derived from said system clock and comprised of a time mark and a time mark **send** time, said time mark **send** time indicating the time of **transmit** as indicated by said system clock of a previously **transmitted** time mark; and...

...i) a link receiver for receiving said paging data blocks from said system **controller**;

(...

...ii) a **transmitter** for **broadcasting** said pages contained in said paging data blocks; and...

...iii) a station **controller** including a paging station clock for maintaining a station time, said station **controller** receiving said paging data blocks from said system **controller** and **forwarding** said pages contained in said paging data block to said **transmitter** for **broadcast** when said station time of said paging station clock equals said **start** time contained in said paging data block

...Title Terms: **SYNCHRONISATION**;

...International Patent Class (Main): **H04L-000/00**

Manual Codes (EPI/S-X): **W01-A04...**